

tv



PHILIPS

Contents

Help?

If this instruction manual does not give an answer or if 'Tips' do not solve your TV problem, you can call your Local Philips Customer or Service Centre. See the supplied World-wide guarantee booklet.

Please, have the Model and Product number which you can find at the back of your television set or on the packaging, ready, before calling the Philips helpline.

Model: 32PW9319

Product No:

Due to continuous product improvements this manual is subject to change without notice.

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End of life directives

Philips is paying a lot of attention to producing environmentally-friendly in green focal areas. Your new TV contains materials which can be recycled and reused. At the end of its life specialised companies can dismantle the discarded TV to concentrate the reusable materials and to minimise the amount of materials to be disposed of. Please ensure you dispose of your old TV according to local regulations.



EasyLink features are based on the "one touch operation" approach. This means that a sequence of actions are executed at the same time in both the television and the video cassette recorder, provided both are fitted with the EasyLink function and connected with the eurocable supplied with your video recorder.

English

Dansk

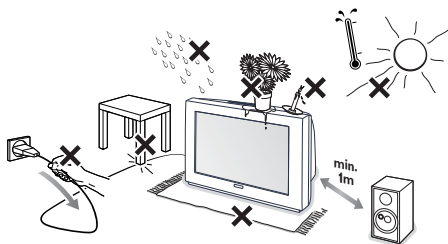
Norsk

Svenska


Suomi

Preparation

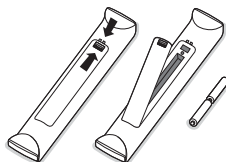
- 1 Place the TV on a solid surface.
! 32PW9319: 59 kg !




For ventilation, leave at least 5 cm free all around the TV. Do not place the TV on a carpet. To prevent any unsafe situations, do not place any objects on top of the TV. Avoid heat, direct sunlight and exposure to rain or water.

- 2 Insert the aerial plug firmly into the aerial socket  at the back of the TV. For best picture quality use the suppressor-aerial cable supplied.
- 3 Insert the mains plug of the TV in the wall socket having a mains voltage of 220V-240V.

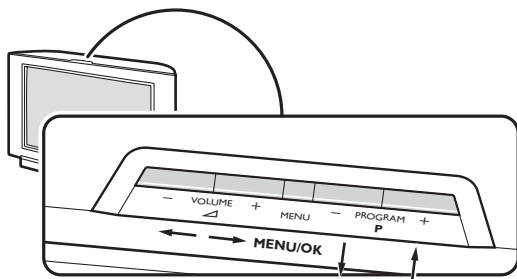
- 4 **Remote control:** Insert the 2 batteries supplied (Type R6-1,5V).



The batteries supplied do not contain the heavy metals mercury and cadmium. Please check on how to dispose of exhausted batteries according to local regulations.


- 5 Switch the TV on : Press the power switch ① on the front of your TV.
A blue indicator on the front of the TV lights up and the screen comes on. If the TV is in standby mode (red indicator), press the **-P+** keys or the red  key on the remote control.

Keys on top of the TV




Should your remote be lost or broken you can still change some of the basic settings with the keys on top of your TV.

Press:

- the  - or + key to adjust the volume;
- the **-P+** keys to select the TV channels or sources.

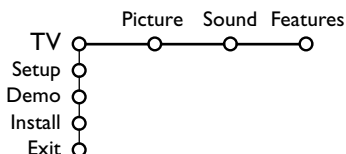
The **MENU/OK** key can be used to summon the main menu without the remote control.

Use:

- the  - and + keys and the **P-** and **P+** keys to select menu items in the directions as shown;
- the **MENU/OK** key to confirm your selection.

Note:

When activated via the **MENU/OK** key on top of the TV, only **Exit** lets you dismiss the menu. Navigate to **Exit** and press the **MENU/OK** key.



Use of the remote control RC4301/01

Note: For most keys pressing a key once will activate the function. Pressing a second time will de-activate it. When a key enables multiple options, a small list will be shown. Press repeatedly to select the next item in the list. The list will be removed automatically after 4 seconds or press **OK** to remove immediately.

VCR DVD SAT AMP CD

Audio- and Video equipment keys
(p. 17)

Select peripherals
(p. 16)



Audio- and Video equipment keys
(p. 17)

Instant record

See Record with your recorder with EasyLink, p. 17.

Time display

The time is displayed on the screen.

Surround mode

Incredible surround

With stereo transmission, and when Incredible surround is selected, it seems as though the loudspeakers are spread further apart from one another.

Virtual Dolby Surround

Optimal with Dolby surround signals. Enables you to experience the effect of Dolby surround Pro Logic, reproducing a rear sound effect. See Sound menu, 3D effect, p. 11.

Note: You can make the same selection in the Sound menu, surround mode, p. 11.

Cinema Go

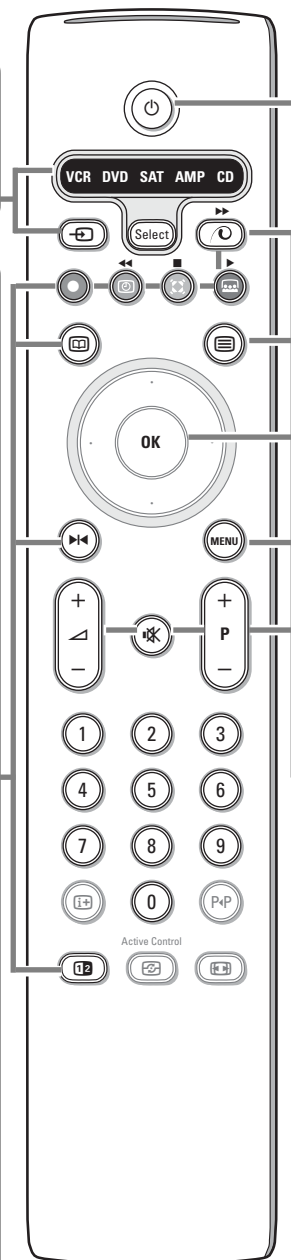
See separate Cinema Link booklet supplied.

Teletext guide on/off p. 14

Press the **12** key to show Teletext Guide on the right half of the screen.

Freeze

To freeze the picture.



Standby

Press to switch the TV on or off. When switched off, a red indicator on the TV lights up.

Pixel Plus demo on/off

In the right part Pixel Plus and Digital Natural Motion are switched on.

Teletext on/off p. 13

Press the **12** key to show teletext on the right half of the screen.

OK Press this key

- to activate your choice, when in the menus.
- to display the programme list.

MENU Main menu on/off see p. 5

To adjust the volume.

Interrupt the sound or restore it.

P Programme selection

To browse through the TV channels and sources stored in the favourite list.

0/9 Digit keys

To select a TV channel. For a two digit programme number, enter the second digit before the dash disappears. To switch immediately to a selected one digit TV channel, keep the digit key pressed a bit longer.



i+ On Screen information

Press to display information about the selected TV channel and programme.

Menu/Remote control info

When a menu is on screen, press **i+** to display info on the selected menu item. For information on the remote control functions, while the menu info is displayed, press any key on the remote control. The normal function of the key is not executed.

P/P Smart surf

With this key you can easily switch between 2 up to 9 different TV channels or sources. See General, Smart surf, p. 7.

Press the **OK** key or wait for the time out to dismiss the Smart surf display.

12 Dual screen

1 Press the or key.

Press the **12** key to show Teletext or Teletext Guide on the right of the screen.

2 • Picture/Teletext Guide:

- Press the cursor left/right to select a TV channel.
- Press the cursor down to move the puck to the blue ball in the left screen.
- Press **+P-** to select another TV channel.

• Picture/Teletext:

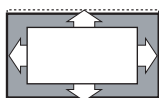
See Active screen selection, p. 13.

3 Press the **12** key to switch off dual screen.

Active control see p. 10

Picture format

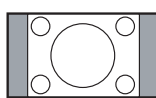
Press this key repeatedly or press the cursor up/down to select another picture format: Auto format, Super zoom, 4:3, Movie Expand 14:9, Movie Expand 16:9, Subtitle zoom or Wide screen.



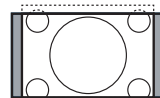
Auto format



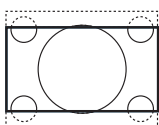
Super zoom



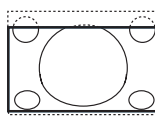
4:3



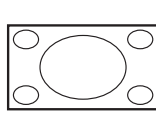
Movie Expand 14:9



Movie Expand 16:9



Subtitle zoom



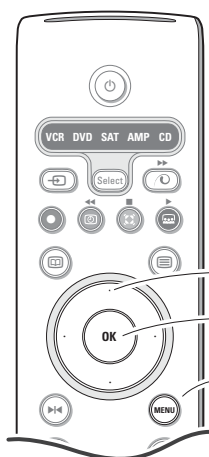
Wide screen

Auto format makes the picture fill the screen as much as possible. In case of subtitles in the bottom black bar, Auto format makes the subtitles visible. If subtitles are only partly visible, press cursor up. In case of a broadcaster logo in the corner of the top black bar, the logo disappears from the screen.

Super zoom removes the black bars on the sides of 4:3 programs with minimal distortion.

When in Movie Expand 14:9, 16:9, Super zoom or Subtitle zoom picture format, you can make subtitles visible with the cursor up/down.

To use the menus



cursor to select adjustments

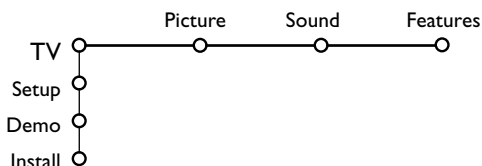
OK key to activate

return or switch main menu on/off

Press the **i+** key on the remote control to get information about the selected menu item.

- 1 Press the **MENU** key on the remote control to summon the main menu. At any moment you can exit the menu by pressing the **MENU** key again.

Note: If you have connected equipment with Cinema Link, more menu items are present.



- 2 Use the cursor in the up/down direction to select the **TV**, **Setup**, **Demo** or **Install** menu. Use the cursor left/right to select **Picture**, **Sound** or **Features**.

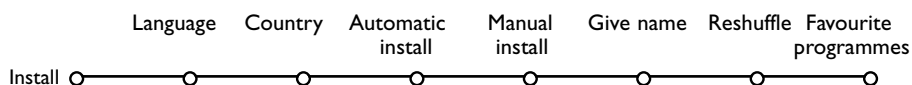
Note: Sometimes not all the menu items are visible on the screen (indicated by a cluster of blue balls). Use the cursor down or right to reveal all items.

- 3 Use the cursor in the left/right direction to select the menu item.
- 4 Use the cursor up/down again to select the control you want to select or to adjust.

Note: Items temporary not available or not relevant are displayed in a light grey colour and cannot be selected.

Installation

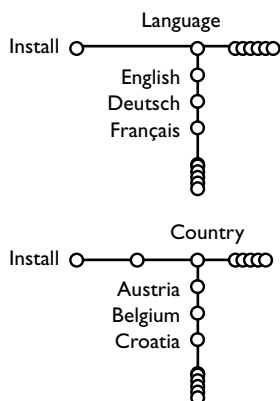
The installation menu contains the following items:



EasyLink

If your video recorder has an EasyLink function, during installation, the language, country and available channels are automatically transmitted to the video recorder.

Select the menu language and country

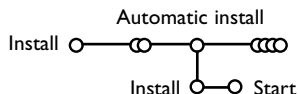


- 1 Press the **MENU** key on the remote control.
- 2 Use the cursor down to select **Install**.
- 3 Use the cursor right to select **Language**. Follow the instructions on screen.
- 4 Use the cursor up/down to select your preferred language and press the **OK** key to confirm your selection.
- 5 Use the cursor right to select **Country**.
- 6 Select the country where you are now located and press the **OK** key. Select **Other** when none of the countries applies.
- 7 Proceed with the **Install** menu.

Store TV channels

After language and country are set correctly, you can now search for and store the TV channels in two different ways: using Automatic Installation or Manual Installation (tuning-in channel by channel). Select your choice with the cursor right.

Automatic installation



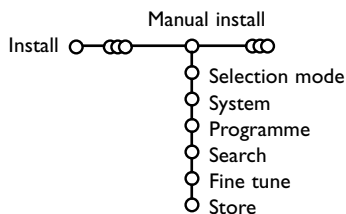
- 1 Select **Automatic install** in the Install menu.
Note: All channels must be unlocked in order to autoprogram. If requested, enter your code to unlock all channels. (See TV, Features menu, Childlock, p. 11.)
- 2 Press the cursor down. The autoprogramming option label **Start** appears.
- 3 Press the cursor right.

- 4 The message **Searching** appears and the progress of autoprogramming is displayed.

If a cable system or a TV channel which broadcasts ACI (Automatic Channel Installation) is detected, a programme list appears. Without ACI broadcast, the channels are numbered according your language and country selection. You can use Reshuffle to renumber them. See p. 7.

*It is possible that the cable company or the TV channel displays a broadcast selection menu. Layout and items are defined by the cable company or the TV channel. Make your choice with the cursor and press the **OK** key.*

Manual installation



Searching for and storing TV channels is done channel by channel. You must go through every step of the Manual Installation menu.

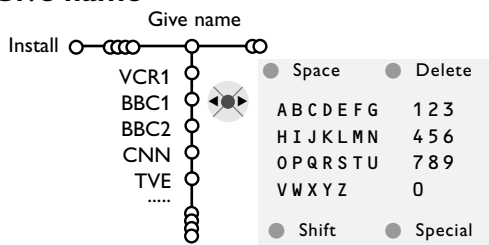
- 1 Select **Manual install** in the Install menu.
- 2 Press the cursor down.
Follow the instructions on screen.

Note: Search or direct selection of a TV channel.

If you know the frequency, the C- or S-channel number, enter the 3 or 2 digits of the frequency or the channel number directly with the digit keys 0 to 9 (e.g. 048). Press the cursor down to proceed.

Repeat to search for another TV channel.

Give name



It is possible to change the name stored in the memory or to assign a name to a TV channel for which a name has not yet been entered. A name with up to 5 letters or numbers can be given to the programme numbers 0 to 99.

- 1 Select **Give Name** in the Install menu and press the cursor down.

- 2 Select the programme number.
Note: keep the cursor up/down pressed to scroll through the programme list quickly.
- 3 Press the cursor right.
A keyboard appears on the screen. Press the cursor right to enter the keyboard. Press the cursor up/down, left/right to select the first character and press **OK**. Repeat for every character you want to enter.
Select **Space** to enter a space; **Delete** to erase the highlighted character in the name entered; **Shift** to display upper- or lowercase characters on the keyboard; **Special** to display special characters on the keyboard. Press **OK** to confirm.
- 4 Press the cursor left repeatedly when you have finished the name giving.
- 5 Select another programme number and repeat steps 3 to 4.

Reshuffle the programme list

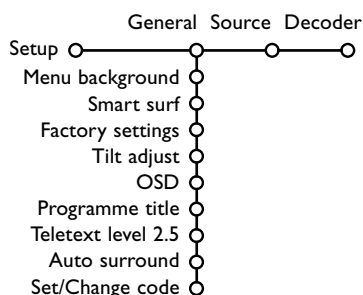
You can change the order of the stored TV channels.

- 1 Select **Reshuffle** in the Installation menu.
- 2 Follow the instructions on screen.

Select Favourite TV channels

- 1 Select Favourite programmes in the Install menu.
- 2 Select your programme number with the cursor up/down.
- 3 Select **Yes** or **No** with the cursor right.
- 4 Repeat 2 and 3 for every TV channel or external you want to make a favourite or a non-favourite TV channel or external.

TV Setup



The Setup menu contains items that control the settings of the TV's functions, features, services and peripherals you may have connected.

The **General** menu allows you to change various settings that are presumably adjusted less frequently than most other settings.

The **Source** menu allows you to select a source.

The **Decoder** menu allows you to define one or more programme numbers as decoder programme numbers.

Press the **i+** key on the remote control to get information about the selected menu item.

General

Smart surf

- 1 Select **Smart surf**.
- 2 With the cursor left/right, select
 - **2 programmes** if you want the P4P key to toggle between the current and the previously selected channel,
 - **9 programmes** if you want the P4P key to summon a list of up to 9 channels which can be selected,

To add/remove a channel or source:

Tune to the channel or source you wish to add or remove. Press the P4P key and press the cursor right to add or remove.

Note: If there are already 9 channels/sources in the list, the one at the bottom of the list will be removed.

Factory settings

This resets the picture and sound settings to their predefined factory values, but maintains the channel installation settings.

OSD (On Screen Display)

See Use of the remote control, p. 3, **i+** On screen information.

- 1 Select **OSD**.
- 2 Select **Normal** to activate the continuous display of the programme number. Also TV channel and programme information are extended. **Minimum** will display reduced channel information.

Note: When subtitles is switched on, see Features, p.10, continuous display of the programme number is not possible.

Teletext level 2.5

Some broadcasters offer the opportunity to see more colours, other background colours and nicer pictures in the teletext pages.

- 1 Select **Teletext level 2.5**.
- 2 Press the cursor right to select **Teletext level 2.5 On** to take advantage of this feature.
- 3 Press the cursor right again to select **Teletext level 2.5 Off** if you like the more neutral teletext layout.

The selection made is valid for all channels which broadcast teletext level 2.5.

Note: It may take a few seconds before teletext broadcast switches over to Teletext level 2.5.

Auto Surround

Sometimes the broadcaster transmits special signals for Surround Sound encoded programmes. The TV automatically switches to the best surround sound mode when **Auto Surround** is switched **On**.

Set/Change code

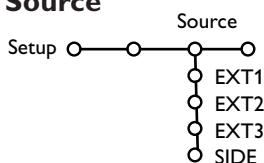
The Child lock feature (see TV, Features, p. 11) allows you to lock channels to prevent others from watching certain programmes. To watch locked channels, a 4-digit code must be entered. The Set/Change code menu item allows you to create or change a Personal Identification Number (PIN).

- 1 Select **Set/Change code**.
- 2 If no code exists yet, the menu item is set to **Set code**.
If a code has previously been entered, the menu item is set to **Change code**. Follow the instructions on screen.

Important: You have forgotten your code !


- 1 Select **Change code** in the General menu and press **OK**.
- 2 Press the cursor right and enter the overriding code 8-8-8-8.
- 3 Press the cursor again and enter a new personal 4-digit code. The previous code is erased and the new code is stored.

Source

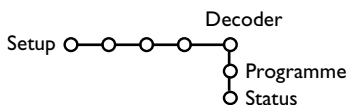


This menu allows you to indicate the peripheral you connected to one of the external inputs.

- 1 Press the cursor right to enter the list of types of peripherals attached to the selected input.
- 2 Select the peripheral device with the cursor up/down.

Once you have selected the source type, e.g. DVD, this source will automatically be selected when your remote control is in DVD mode, see p. 3, and when you press the  key on the remote control.

Decoder



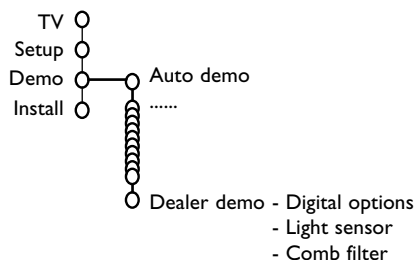
If a decoder or a descrambler is connected, see p. 15, you can define one or more programme numbers as decoder programme numbers.

- 1 Select **Decoder** with the cursor right.
- 2 Select **Programme**.

- 3 Select the programme number under which you have stored the programme coming from your decoder.
- 4 Select **Status**.
 - Select the input used to connect your decoder: **None**, **EXT1** or **EXT2**.
 - Select **None** if you do not want the selected programme number being activated as a decoder programme number.

*Note: Select **EXT2** when the decoder is connected to your EasyLink video recorder.*

Demo



The Demo menu allows to demonstrate the TV features separately or in a continuous loop.

If **Auto demo** has been selected the demo will automatically present the features sequentially in a loop. Press one of the cursor keys to stop the Auto demo.

If one of the features has been selected, this particular feature demo will run only once, and the Demo menu will reappear.

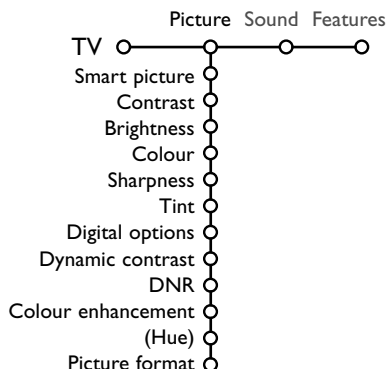
Note: The Dealer demo is not part of the automatic sequence and can only be activated separately.

TV menu

Press the **MENU** key on the remote control to summon the main menu.

Press the **i+** key on the remote control to get information about the selected menu item.

Picture menu



- 1 Press the cursor right to select **Picture**.
- 2 Select the menu items in the Picture menu with the cursor up/down.
- 3 Adjust the settings with the cursor left/right or enter the list of submenu items with the cursor right. Select a submenu item with the cursor up/down.

Note: To remove the menu background before adjusting the picture settings, see Select TV setup, General, p. 7.

Smart picture

Select **Smart picture** to display a list of predefined picture settings, each corresponding with specific factory settings.

Personal refers to the personal preference settings of picture in the picture menu.



Digital options

Pixel Plus is the most ideal setting, doubles the horizontal resolution and increases the number of lines with 33%. You may consider to select Movie Plus in case a halo effect should disturb you. Dependent on your own preference, select Double lines, or 100 Hz Digital Scan.

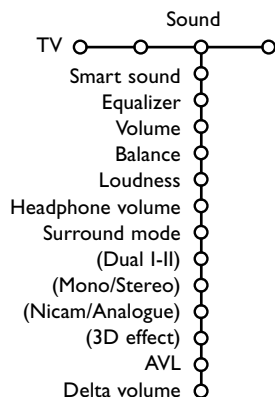
Note: When 60 Hz NTSC material is used, the options are changed to Pixel Plus, Movie Plus or Progressive, progressive scan without motion compensation.

Active Control

The TV continuously measures and corrects all incoming signals in order to provide the best picture possible.

- ❶ Press the  key on the remote control.
- ❷ The **Active Control** menu appears.
- ❸ Press the cursor up/down to select the Active Control values **Off**, **Minimum**, **Medium** (recommended) or **Maximum**.
The picture settings are being optimised continuously and automatically which is displayed by bars. The menu items can not be selected.
- ❹ Press the cursor right to select **Smart Picture**.
- ❺ Press the cursor up/down to select one of the predefined picture settings.
- ❻ Press the cursor right to select **Active Display**.
- ❼ Press the cursor up/down to select **Show bars**, one of the Dual screen demos or **Off**.
When you select Dynamic contrast, Pixel Plus, Digital Noise Reduction or Digital Natural Motion, the TV screen is divided into two parts: in the left part the selected picture quality setting is switched off; in the right part it is switched on.
- ❽ Press the  key again to switch off the Active Control menu.

Sound menu



- ❶ Press the cursor right to select **Sound**.
- ❷ Select the menu items in the Sound menu with the cursor up/down and adjust the settings with the cursor left/right. Remember, control settings are at normal mid-range levels when the bar scale is centred.

Smart sound

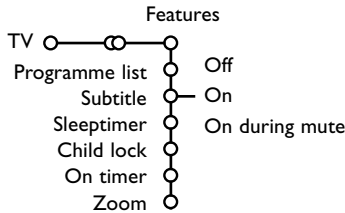
Select **Smart sound** to display a list of predefined sound settings, each corresponding with specific factory settings of Treble and Bass.

Personal refers to the personal preference settings of sound in the sound menu.

Notes:

- Some menu items are only available in case of a Cinema Link configuration and when the Cinema Link is activated. Others are steered by the audio receiver instead of by the TV. See the separate Cinema Link booklet supplied.
- **Dual I-II** is only available with dual sound transmission.
- **Mono/Stereo** is only selectable in case of analogue stereo transmission.
- **Nicam/Analogue** is only selectable in case of Nicam transmission.

Features menu



Programme list

Press the **OK** key to switch over to the selected TV channel or external.

Select subtitles

The subtitle page must be stored for each TV channel:

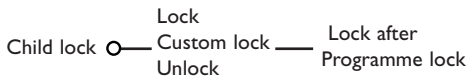
Switch on teletext and select the proper subtitle page from the index. Switch off teletext.

Subtitle On will automatically display them on the selected TV channels if subtitles are in the transmission. A symbol will indicate that the mode is on.

Select **On during mute** when you want to have the subtitles automatically displayed only when the sound has been muted with the **M** key on the remote control.

Child lock

- 1 Select Child lock.



- 2 Press the cursor right to enter the Child lock menu. You're summoned to enter your code.
Note: You have to re-enter your code each time you enter the child lock menu.

Important: You have forgotten your code ! See p. 8.

- 3 Select one of the menu items of the child lock menu:
 - **Lock** if you want to lock all channels and externals.
 - **Custom lock** and press the cursor right. Select:
 - **Lock after** if you want to lock all channels and externals from a certain time onwards. Press the cursor right and enter the time with the cursor up/down and right. Press the **OK** key to validate.
 - **Programme lock** if you want to lock a certain TV channel or external;
 - Select **Unlock** to disable all locks you have set.

- 1 Press the cursor right to select **Features**.
- 2 Select the menu items with the cursor up/down and adjust the settings with the cursor left/right.

On timer

- 1 Select **On timer** with the cursor down.



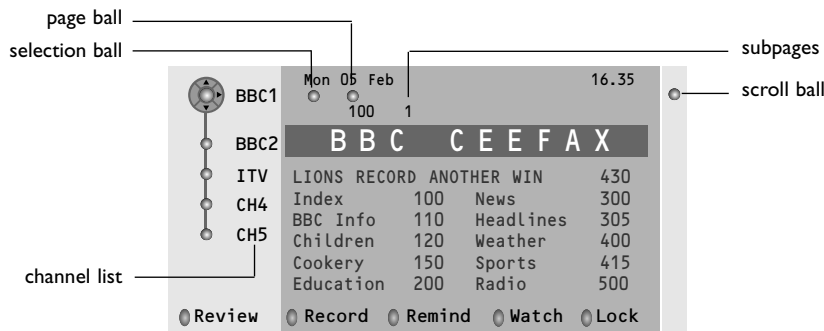
- 2 Select **On** with the cursor right.
- 3 Press the cursor right again to enter the programme list.
- 4 Select the TV channel or external you want your TV to switch to on a selected time and day.
- 5 Press the cursor right again to select a day of the week or to select **Daily**.
- 6 Press the cursor right once again to enter the time with the digit keys or with the cursor up/down and press the **OK** key to activate.
- 7 Press the **MENU** key to turn off the menu.
*Note: To check your timer settings, press the **i** key.*

Zoom

- 1 Select **Zoom** with the cursor down and press the **OK** key.
- 2 Press the **OK** key to select one of the zoom magnifications (x1, x4, x9, x16).
- 3 Additionally you can shift the selected zoom window over the screen with the cursor keys up/down, left/right.
- 4 Press the **MENU** key to turn off the zoom function.

Teletext guide

TV channels which broadcast teletext also transmit a page with the programme guide of the day. If the displayed teletext programme guide page satisfies the Video Programming via Teletext (VPT) requirements, it will be possible to record, remind, watch or lock programmes.



- ❶ Press the key.
- ❷ Select a TV channel with the cursor up/down and press **OK**.
- ❸ Move the cursor up to the top of the channel list where the name of the selected TV channel reappears.
- ❹ Press the cursor right to move the puck over the selection ball.
- ❺ In the teletext index page, look for the programme guide page of the day or the following day.
- ❻ Enter with the digit keys, the programme guide page number.
Press the cursor right twice to move the puck to the right to choose one of the subpages if available.

If the selected programme satisfies the VPT requirements, the TV will remember the last selected teletext page number of that channel that contains programme guide information and indicates which programme starts at what time.

Every time you press the key, the teletext programme guide page of the selected TV channel will be available.

Note: The broadcaster is responsible for the content of the information.

Basic functions

Press one of the grey, red, green, yellow or blue keys to activate a Teletext Guide function. The keys appear in grey if the function is not available.

Review: this menu provides a list of programmes that are marked as reminders, those that have to be recorded and those that are locked. This menu can be used to change or remove marked programmes.

Record: to programme the recording of the video recorder (if it has a NEXTVIEWLink function and is connected to **EXT. 2**).

Remind: to automatically switch on the TV if it is in standby or to display a message if the TV is on.

Lock: to lock certain programmes to prevent recording or watching.

For the functions Record, Remind or Lock, a small menu pops up in which you can choose the interval: once, daily or weekly, or clear an earlier made record, remind or lock setting. The default interval is set to **Once**. To confirm the frequency, press the **OK** key.

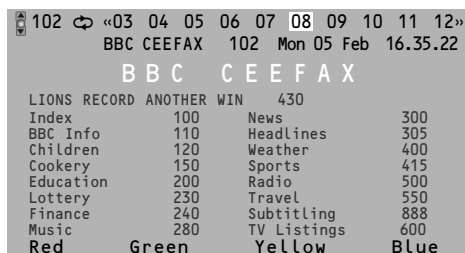
Watch: to watch the selected and currently broadcast programme.

Teletext

Most TV channels broadcast information via teletext. This TV has a 1200 pages memory that will store most broadcasted pages and subpages to reduce waiting time. After each programme change, the memory is refreshed.

Switch Teletext on and off

Press **[MENU]** to switch the teletext on.



102	«03 04 05 06 07 08 09 10 11 12»
BBC CEEFAX 102 Mon 05 Feb 16.35.22	
B B C C E E F A X	
LIONS RECORD ANOTHER WIN 430	
Index	100 News 300
BBC Info	110 Headlines 305
Children	120 Weather 400
Cookery	150 Sports 415
Education	200 Radio 500
Lottery	230 Travel 550
Finance	240 Subtitling 888
Music	280 TV Listings 600
Red	Green Yellow Blue

Select a Teletext page

- Enter the desired page number with the digit keys, the cursor keys up/down or with the **-P+** key.
- Select the options at the bottom of the screen with the colour keys.

Previously selected teletext page

(Only possible in case there is no list of favourite teletext pages available. See p. 14.)

Press the **P/P** key.

Select the index teletext page

Press the grey colour key **[▶▶]** to display the main index (usually p.100).

Only for T.O.P teletext broadcasts:

Press **[i+]**. A T.O.P. overview of the teletext subjects available is displayed.

Select with the cursor up/down, left/right the desired subject and press the **OK** key.

Not all TV channels broadcast T.O.P. teletext.

Select subpages

When a selected teletext page consists of different subpages, a list of available subpages appears on the screen.

Press the cursor left or right to select the next or previous subpage.

Enlarge a Teletext page

Press **[F4]** repeatedly to display the upper teletext part, the lower teletext part and then to return to the normal teletext page size. When the teletext page is enlarged, you can scroll the text, line by line using the cursor up/down.

Picture/Teletext

- 1 Press the **[MENU]** key. Press the **[12]** key to show Teletext on the right of the screen.
- 2 Use the cursor keys to select a TV channel.
- 3 Press the **[12]** key to switch off dual screen.

Active screen selection

When in dual screen picture/teletext (**[12]** key), enter the desired page number with the **-P+** key, then press the **MENU** key, then select the left screen (with the blue ball at the top).

You can now select a compressed or full screen view of picture/teletext with the **[F4]** key.

Hypertext

With hypertext you can quickly jump to a pagenumber or search for a specific word shown on the current teletext page.

- 1 Press the **OK** key to highlight the first word or a number on the page.
- 2 Use the cursor up/down, left/right to select any other word or number you want to search for.
- 3 Press the **OK** key to confirm. The search starts. A message appears at the bottom of the screen to indicate the searching, or that the word or page is not found.
- 4 Use the cursor up to exit hypertext.

Teletext menu

(only available in full screen teletext mode)

- 1 Press the **MENU** key to activate the menu.
- 2 Press the cursor up/down to select the menu items.
- 3 Press the cursor right to activate.

Reveal

Reveals/conceals hidden information on a page, such as solutions to riddles and puzzles.
Press the cursor right to activate.

Favourite

You may create a list of eight favourite teletext pages in total, selected from various TV channels.

To add a favourite page to the list:

- 1 Select a favourite teletext page.
- 2 Select **Favourite** in the teletext menu and press the cursor right to enter the list.
- 3 Press the cursor right again to add the page.
- 4 Press the **MENU** key to watch the current page.

To watch a favourite page from the list:

When in Teletext, use the P+P key to browse through the favourite pages of the TV channel actually selected.
Note: Only the pages of the current channel can be selected.

Search

Selecting a word

On the keyboard on screen you can type in a random word you want to search for in the teletext pages. Whether upper- or lowercase is used has no influence.



- 1 Press the cursor right to enter the keyboard.
- 2 Press the cursor left/right, up/down to select the characters, words or functions.
- 3 Press the **OK** key to confirm each character selected.

- 4 Select **Cancel** to cancel the word; **Space** to enter a space; **Delete** to delete the last character selected; **Shift** to switch between lowercase or capital characters; **Special** to display special characters on the keyboard and press the **OK** key.
- 5 Press the cursor left repeatedly to return to the Teletext menu again.

Searching a word

- 1 Type in the word on screen or select a word from the history list on the right and press **OK**.
- 2 Select **Accept** and press **OK** again. The message **Searching** appears.
- 3 To cancel the searching or to search for a new word, select **Keyboard** and press **OK**.
- 4 When a word is not found, a message appears. When the word is found, it is highlighted in the teletext page. To continue the search, press the **OK** key.

Cycle subpages (if available)

Makes the subpages cycle automatically.
Press the cursor right to activate and to deactivate again.

Timed page

To display a specific page from a selected TV channel at a certain time.

- 1 Press the cursor right and select **Yes** or **No**.
- 2 Enter the time and pagenumber with the cursor keys or the digit keys.

Note: Teletext does not have to remain switched on, but you should watch the TV channel you have selected the specific page from.

- 3 Press the cursor left to return to the TV menu again.

Language

If the displayed characters on screen do not correspond with the characters used by the teletext broadcaster, you can change the language group here.
Select **Group 1** or **2** with the cursor right.

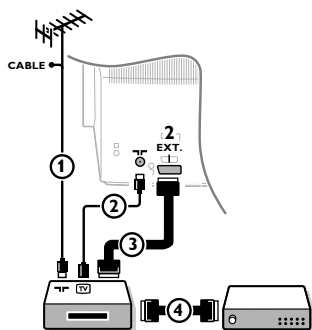
Press the **MENU** key to leave the Teletext menu.

Connect Peripheral Equipment

There is a wide range of audio and video equipment that can be connected to your TV. The following connection diagrams show you how to connect them.

*Note: **EXT. 1** can handle CVBS and RGB, **EXT. 2** CVBS and Y/C, **EXT. 3** CVBS and RGB. It is preferred to connect peripherals with RGB output to **EXT. 1** or **EXT. 3** as RGB provides a better picture quality. If your recorder is provided with the Easylink function, it should be connected to **EXT. 2** to benefit from the EasyLink functionality.*

Recorder (VCR-DVD+RW)



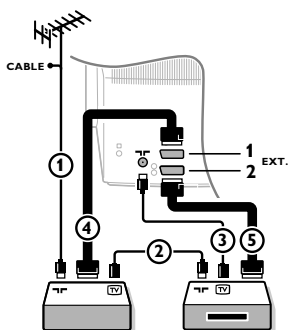
Connect the aerial cables ①, ② and, to obtain the optimum picture quality, eurocable ③ as shown.

If your recorder does not have a euroconnector, the only possible connection is via the aerial cable. You will therefore need to tune in your recorder's test signal and assign it programme number 0 or store the test signal under a programme number between 90 and 99, see Manual installation, p. 6. See the handbook of your recorder.

Decoder and Recorder

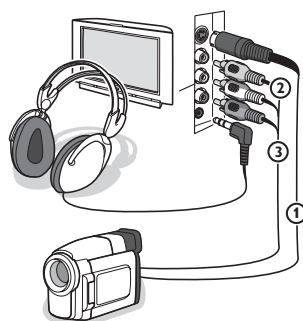
Connect a eurocable ④ to your decoder and to the special euroconnector of your recorder. See also the recorder handbook. See Decoder, p. 8. You can also connect your decoder directly to **EXT. 1** or **2** with a eurocable.

Other equipment (satellite receiver, decoder, DVD, games, etc.)



- ① Connect the aerial cables ①, ② and ③ as shown (only if your peripheral has TV aerial in-/output). Connect your equipment with a eurocable ④ or ⑤ to one of the euroconnectors **EXT.1, 2** or **3** to obtain a better picture quality.
- ② Look for the test signal of your peripheral in the same way as you do for a recorder.
- ③ Make a selection in the Setup, Source menu, p. 8.


Side connections



Camera or Camcorder

- ① Connect your camera or camcorder as shown.
 - ② Connect to **VIDEO** ② and **AUDIO L** ③ for mono equipment. For stereo equipment also connect **AUDIO R** ③. S-VHS quality with an S-VHS camcorder is obtained by connecting the S-VHS cables with the **S-VIDEO** input ① and **AUDIO** inputs ③.
- Do not connect cable ① and ② at the same time. This may cause picture distortion !*

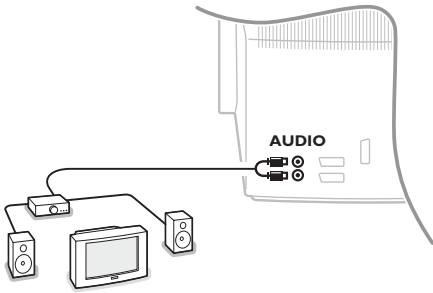
Headphone

- ① Insert the plug into the headphone socket as shown.
- ② Press  on the remote control to switch off the internal loudspeakers of the TV.

The headphone impedance must be between 8 and 4000 Ohm. The headphone socket has a 3.5 mm jack.

In the Sound menu select **Headphone volume** to adjust the headphone volume.


Stereo amplifier and two extra front speakers



- 1 Connect the audio cables to the **AUDIO** input of your amplifier and to **AUDIO L** and **R** at the back of your TV.
- 2 The output level is controlled by the volume control of the amplifier.

Note: Switch off the TV and your audio amplifier before connecting them. Set the audio amplifier's volume to minimum.

To select connected equipment

Press the  key on the remote control repeatedly to select **EXT1**, **EXT2**, **EXT3** or **SIDE** according to where you connected your equipment at the back or the right side of your TV.

Remark : Most equipment (decoder, recorder) carries out the switching itself, when it is switched on.

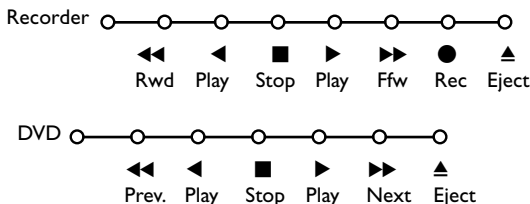
Cinema Link surround receiver

See the separate supplied Cinema Link instruction manual.


Attention: the sound info on screen will not correspond with the actual sound reproduction.


Recorder or DVD with EasyLink

The recorder (VCR or DVD+RW) or DVD can be operated with the remote control via the Recorder or DVD menu on screen.



- 1 Press the **MENU** key on the remote control.
- 2 Select the **Recorder** or **DVD** menu with the cursor up/down.
- 3 Press the cursor left/right, up/down to select one of the recorder or DVD functions.

The key  for recording can be operated in the TV mode.

If your EasyLink recorder has the system standby function, when you press the  key for 3 seconds, both TV and the recorder are switched to standby.

Audio- and video equipment keys



This system remote control operates the following Philips equipment: TV, VCR, DVD, SAT (RC5), AMP (+TUNER), CD;

Press the **Select** key to operate any of the equipment indicated in the display. Another device can be selected by pressing Select repeatedly within 2 seconds. The led will blink slowly to indicate the device.

Press one of the keys on the remote control to operate the peripheral equipment. To return to TV mode press **Select** while the led is blinking.

When no action is taken within 60 seconds, the remote goes back to TV mode.

*Note: When the **Select** key is pressed and held for more than 2 seconds, the RC5/RC6 system select command is transmitted.*

	to switch to standby	MENU	to switch the menu on or off
	for pause (VCR, DVD, CD)	-P+	for chapter, channel, track selection
	for record,	0 to 9	digit entry
	for rewind (VCR, CD); search down (DVD, AMP)	P+P	tape index (VCR), select a DVD chapter, select a frequency (AMP)
	for stop		VCR timer
	for play		surround on/off (AMP, CD)
	for fast forward (VCR, CD); search up (DVD/AMP)	cursor up/down	to select the next or the previous disc (CD)
	to select your choice of subtitle language (DVD); RDS news/TA (AMP); to shuffle play (CD)	cursor left/right	to select the previous or following track (CD) search up/down (AMP)
	to select a dvd title; RDS display (AMP); info on screen (CD)		
	display information		

Additionally the DVD, SAT and CD indicator can be programmed to operate the DVD-R, SAT (RC6), CD-R instead.

- ❶ Press the **Select** key repeatedly until no LED is lit.
- ❷ To program **DVD-R**, press the **OK** key + digit 2.
To program **SAT (RC6)**, press the **OK** key + digit 4.
To program **CD-R**, press the **OK** key + digit 6.

From now on, when the corresponding (**DVD, SAT, CD**) indicator is selected, the remote control will operate your DVD-R, SAT (RC6) or CD-R.

*Note: To return to the modes programmed in the factory, either remove the batteries for a few minutes, or press the **OK** key + digit 1 (DVD mode); or + digit 3 (SAT-RC5) or + digit 5 (CD mode).*

Record with your recorder with EasyLink

In TV mode, it is possible to start a direct recording of the programme which is being displayed on the TV screen. Continue to press the record key on the remote control for more than 2 seconds.

Note:

Switching programme numbers on your TV does not disturb recording !

*When recording a programme from a peripheral connected to **EXT. 1**, **EXT. 3** or **SIDE**, you can not select another TV programme on the screen.*


Care of the screen	Do not touch, push or rub or strike the screen with anything hard as this may scratch, mar or damage the screen permanently. And please do not rub with dust clothes with chemical treatment. Do not touch the surface with bare hands or greasy cloth (some cosmetics are detrimental to the screen). Unplug the TV before cleaning the screen. When the surface becomes dusty, please wipe gently with absorbent cotton or other soft materials like chamois soaks. Do not use acetone, toluene and alcohol because they cause chemical damage. Do not use liquid cleaners or aerosol cleaners. Wipe off saliva or water drops as soon as possible. Their long time contact with the screen causes deformations and colour fading.
Poor Picture	<ul style="list-style-type: none"> • Have you selected the correct TV system in the manual installation menu ? • Is your TV or house aerial located too close to loudspeakers, non-earthed audio equipment or neon lights, etc.? • Mountains or high buildings can cause double pictures or ghost images. Sometimes you can improve the picture quality by changing the direction of the aerial. • Is the picture or teletext unrecognisable? Check if you have entered the correct frequency. See Installation, p. 6. • Are brightness, sharpness and contrast out of adjustment? Select Factory settings in the Setup, General menu, p. 7. • Sometimes poor picture quality is possible when having activated an S-VHS camera or camcorder connected to the right side of your TV and another peripheral is connected to one of the peripherals at the same time. In this case switch off one of the other peripherals.
No picture	<ul style="list-style-type: none"> • Is the aerial connected properly? • Are the plugs tightly connected in the aerial socket? • Is the aerial cable in good condition and does it have suitable plugs?
No sound	<ul style="list-style-type: none"> • No sound on any channel? Check the volume isn't at minimum. • Is the sound interrupted with the mute key .
No solution found for your picture or sound problem ?	Switch your TV off and then on again once. Never attempt to repair a defective TV yourself. Check with your dealer or call a TV technician.
Remote control	<ul style="list-style-type: none"> • If your TV no longer responds to the remote control, the batteries may be dead or the wrong mode (TV or other peripheral, see p. 3) is selected. • You can still use the MENU key and the -/+ keys at the top of your TV.
Menu	Have you selected the wrong menu? Press the MENU key again to exit from the menu.
Standby	Your TV consumes energy in the standby mode. Energy consumption contributes to air and water pollution. Power consumption: 1 W.

Table of TV frequencies.
Frequenztafel der Fernsehsender.
Liste des fréquences des émetteurs.
Frequentietabel TV-Zenders.
Tabella delle frequenze delle trasmissioni.
Lista de las frecuencias de las emisoras.
Lista das frequências dos emissores.
Liste over TV senderne.
Tabell over TV-frekvenser.

EUROPE

CHANNEL ..FREQ (MHz)
E2.....48.25
E3.....55.25
E4.....62.25
E5.....175.25
E6.....182.25
E7.....189.25
E8.....196.25
E9.....203.25
E10.....210.25
E11.....217.25
E12.....224.25
S1.....105.25
S2.....112.25
S3.....119.25
S4.....126.25
S5.....133.25
S6.....140.25
S7.....147.25
S8.....154.25
S9.....161.25
S10.....168.25
S11.....231.25
S12.....238.25
S13.....245.25
S14.....252.25
S15.....259.25
S16.....266.25
S17.....273.25
S18.....280.25
S19.....287.25
S20.....294.25
H1.....303.25
H2.....311.25
H3.....319.25
H4.....327.25
H5.....335.25
H6.....343.25
H7.....351.25
H8.....359.25
H9.....367.25
H10.....375.25
H11.....383.25
H12.....391.25
H13.....399.25
H14.....407.25
H15.....415.25
H16.....423.25
H17.....431.25
H18.....439.25
H19.....447.25
21.....471.25
22.....479.25
23.....487.25
24.....495.25
25.....503.25
26.....511.25
27.....519.25
28.....527.25
29.....535.25
30.....543.25
31.....551.25
32.....559.25
33.....567.25
34.....575.25
35.....583.25
36.....591.25
37.....599.25
38.....607.25
39.....615.25
40.....623.25
41.....631.25
42.....639.25
43.....647.25
44.....655.25
45.....663.25
46.....671.25
47.....679.25
48.....687.25
49.....695.25
50.....703.25
51.....711.25
52.....719.25
53.....727.25
54.....735.25
55.....743.25
56.....751.25
57.....759.25
58.....767.25
59.....775.25
60.....783.25
61.....791.25
62.....799.25
63.....807.25
64.....815.25
65.....823.25
66.....831.25
67.....839.25
68.....847.25
69.....855.25

EASTERN EUROPE

CANAL.....FREQ (MHz)
R1.....49.75
R2.....59.25
R3.....77.25
R4.....85.25
R5.....93.25
R6.....175.25
R7.....183.25
R8.....191.25
R9.....199.25
R10.....207.25
R11.....215.25
R12.....223.25
S1.....105.25
S2.....112.25
S3.....119.25
S4.....126.25
S5.....133.25
S6.....140.25
S7.....147.25
S8.....154.25
S9.....161.25
S10.....168.25
S11.....231.25
S12.....238.25
S13.....245.25
S14.....252.25
S15.....259.25
S16.....266.25
S17.....273.25
S18.....280.25
S19.....287.25
S20.....294.25
H1.....303.25
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27.....519.25
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31.....551.25
32.....559.25
33.....567.25
34.....575.25
35.....583.25
36.....591.25
37.....599.25
38.....607.25
39.....615.25
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42.....639.25
43.....647.25
44.....655.25
45.....663.25
46.....671.25
47.....679.25
48.....687.25
49.....695.25
50.....703.25
51.....711.25
52.....719.25
53.....727.25
54.....735.25
55.....743.25
56.....751.25
57.....759.25
58.....767.25
59.....775.25
60.....783.25
61.....791.25
62.....799.25
63.....807.25
64.....815.25
65.....823.25
66.....831.25
67.....839.25
68.....847.25
69.....855.25

Tabell över TV-frekvenser.
TV-taajuustaulukko.
Κατάλογος συχνοτήτων πομπών.
Список частот передатчиков.
A televízió-adóállomások frekvenciáinak a listája.
Lista częstotliwości stacji nadawczych.
Seznam frekvencních pásem vysílačů.
Zoznam frekvencných pásiem vysílačov.

FRANCE

CANAL.....FREQ (MHz)
E2.....55.75
3.....60.50
4.....63.75
5.....176.0
6.....184.0
7.....192.0
8.....200.0
9.....208.0
10.....216.0
B.....116.75
C.....128.75
D.....140.75
E.....159.75
F.....164.75
G.....176.75
H.....188.75
I.....200.75
J.....212.75
K.....224.75
L.....236.75
M.....248.75
N.....260.75
O.....272.75
P.....284.75
Q.....296.75
H1.....303.25
H2.....311.25
H3.....319.25
H4.....327.25
H5.....335.25
H6.....343.25
H7.....351.25
H8.....359.25
H9.....367.25
H10.....375.25
H11.....383.25
H12.....391.25
H13.....399.25
H14.....407.25
H15.....415.25
H16.....423.25
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27.....519.25
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35.....583.25
36.....591.25
37.....599.25
38.....607.25
39.....615.25
40.....623.25
41.....631.25
42.....639.25
43.....647.25
44.....655.25
45.....663.25
46.....671.25
47.....679.25
48.....687.25
49.....695.25
50.....703.25
51.....711.25
52.....719.25
53.....727.25
54.....735.25
55.....743.25
56.....751.25
57.....759.25
58.....767.25
59.....775.25
60.....783.25
61.....791.25
62.....799.25
63.....807.25
64.....815.25
65.....823.25
66.....831.25
67.....839.25
68.....847.25
69.....855.25

ITALY

CANALE.....FREQ (MHz)
A.....53.75
B.....62.25
C.....63.25
D.....175.25
E.....183.75
F.....192.25
G.....201.25
H.....210.25
H1.....217.25
S1.....105.25
S2.....112.25
S3.....119.25
S4.....126.25
S5.....133.25
S6.....140.25
S7.....147.25
S8.....154.25
S9.....161.25
S10.....168.25
S11.....231.25
S12.....238.25
S13.....245.25
S14.....252.25
S15.....259.25
S16.....266.25
S17.....273.25
S18.....280.25
S19.....287.25
S20.....294.25
H1.....303.25
H2.....311.25
H3.....319.25
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34.....575.25
35.....583.25
36.....591.25
37.....599.25
38.....607.25
39.....615.25
40.....623.25
41.....631.25
42.....639.25
43.....647.25
44.....655.25
45.....663.25
46.....671.25
47.....679.25
48.....687.25
49.....695.25
50.....703.25
51.....711.25
52.....719.25
53.....727.25
54.....735.25
55.....743.25
56.....751.25
57.....759.25
58.....767.25
59.....775.25
60.....783.25
61.....791.25
62.....799.25
63.....807.25
64.....815.25
65.....823.25
66.....831.25
67.....839.25
68.....847.25
69.....855.25

GB
The frequencies used by a cable company may differ from the frequencies on the table. Consult your cable company or your dealer for detailed information.

D
In Kabelfernsehanlagen können Abweichungen von den in den Frequenztabellen aufgeführten Frequenzen vorkommen. Bitte wenden Sie sich an Ihren Fachhändler oder Ihre Kabelfernsehgeseilschaft, die Ihnen die zutreffenden Frequenzen mitteilt.

F
Les fréquences utilisées par une société de télédistribution peuvent être différentes de celles sur la liste des fréquences. Consultez votre société de télédistribution ou votre revendeur pour des informations plus détaillées.

NL
De frequenties die gebruikt worden door een kabelmaatschappij kunnen verschillen van deze op de tabel. Raadpleeg uw kabelexploitant of uw handelaar voor meer informatie.

I
Le frequenze usate per una società di teledistribuzione possono essere differenti di quelle nella tabella. Consultate la società di teledistribuzione o il vostro rivenditore per informazione specifica.

E
Las frecuencias utilizadas por las empresas de distribución de señal por cable, pueden ser diferentes de las que se encuentran en esta tabla. Consulte con su compañía de distribución de televisión por cable o con su distribuidor para que le proporcionen una información más detallada.

P
As frequências utilizadas por uma sociedade de tele Distribuição podem ser diferentes das indicadas na lista de frequências. Consultar a sociedade de tele Distribuição ou o vendedor para informações mais detalhadas.

DK
Frekvenser benyttet af kabel operatører kan være afvigende fra disse, kontakt deres kabel operatør eller forhandler for nærmere informa-tion.

N
Frekvensene som benyttes pa et kabelnett kan avvike fra de som er oppført i tabellen. Kontakt ditt kabel-TV selskap eller din radiohandler for nærmere opplysninger.

S
Frekvenserna som används i kabel-TV-näten kan avvika från frekvenserna i tabellen. Kontakta ditt kabel-TV-bolag eller din radiohandlare för vidare information.

SF
Kaapeliyhöiden käyttämät taajuudet voivat poiketa taulukossa olevista taajuuksista. Tarkat tiedot saat kaapeliyhdistä tai myyjältä.

GR
Οι συχνότητες που χρησιμοποιούνται από μια εταιρεία τηλεμετάδοσης είναι δυνατόν να είναι διαφορετικές από αυτές που περιέχει ο κατάλογος. (Συμβουλευθείτε την εταιρεία τηλεμετάδοσης ή τον πωλητή για λεπτομερέστερες πληροφορίες).

CEI
Частоты на которых передаёт телекомпания могут отличаться от частот на данной таблице. (Обратиться к Вашей телекомпании или Вашему продавцу за дополнительной информацией).

H
Egy televízió-adóállomás sugárzásához használt frekvenciatarományai lehetnek a táblázatban közlötöktől eltérőek is. (Abban az esetben, ha bővebb információkra van szüksége, forduljon az eladóhoz.)

PL
Operator sieci telewizyjnej może stosować inne częstotliwości, niż te, które figurują na tablicy (bardziej szczegółowych informacji na ten temat zasięgnąć u operatora lub sprzedawcy).

CZ
Frekvence používané některými televizními společnostmi se mohou lišit od údajů uvedených v tomto seznamu. Informujte se blíže u příslušné společnosti nebo v prodejně, kde jste televizor koupili.

SK
Frekvencie používané niektorými spoločnosťami televízneho prenosu sa môžu líšiť od údajov uvedených v tomto zozname. Informujte sa bližšie u príslušnej spoločnosti alebo v predajni, kde ste televizor kúpili.



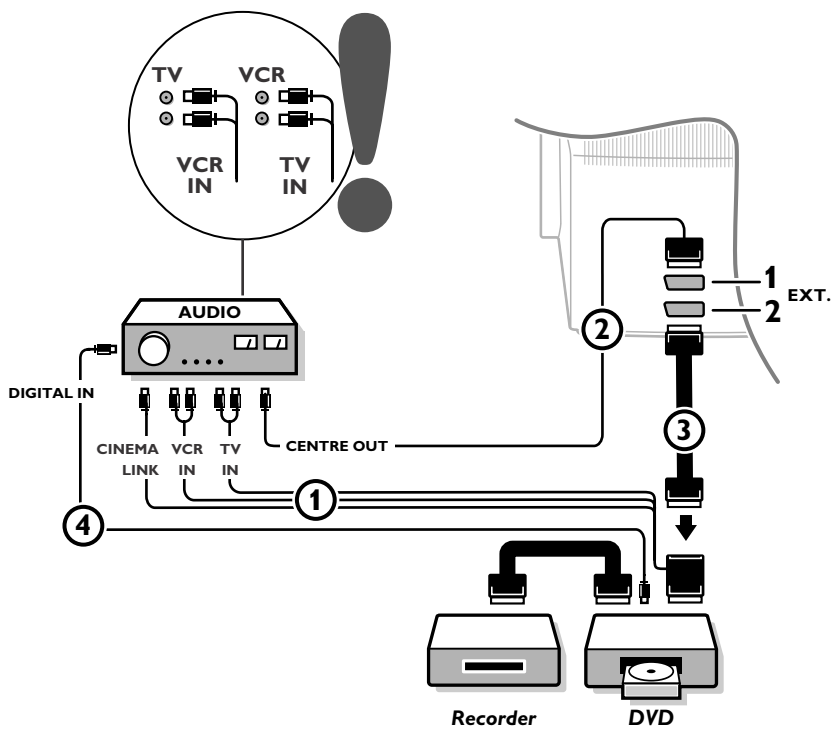
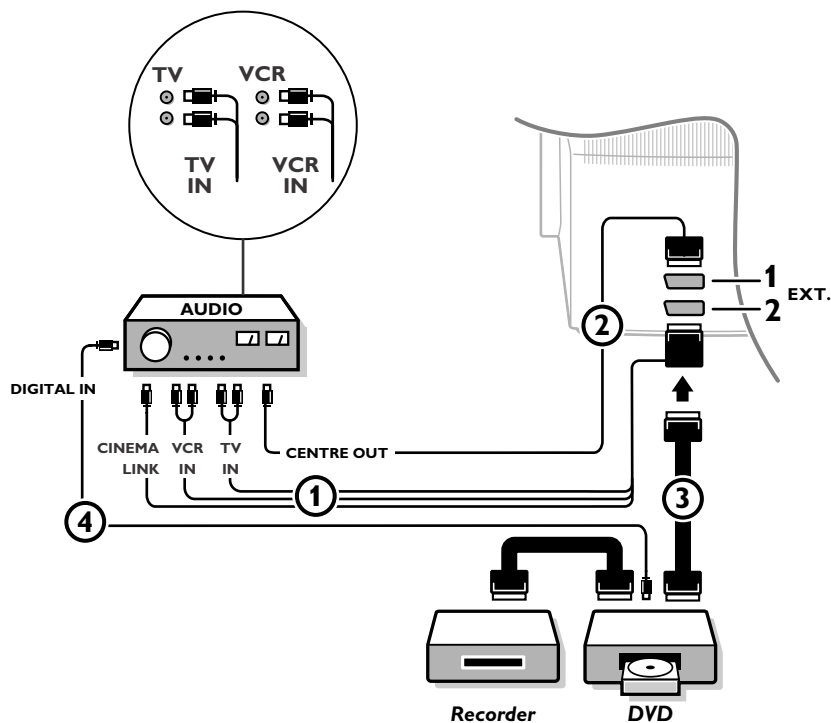
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Cinematiclink



PHILIPS



Note: The Cinema Link functionality is only available with devices of the Cinema Link (P50.3) generation !

Cinema Link is a new Philips feature in which the TV, the audio receiver and other video peripherals communicate with each other (on condition they all are equipped with the Cinema Link functionality and are connected via a eurocable). They automatically offer the highest quality combination of picture and multi channel surround sound to create your own Home Cinema.

Recommended:

Do not use the AC outlet at the back of the audio receiver to power the DVD or the video recorder in a Home Cinema configuration.

The TV can function as the centre speaker of your system, making a separate centre speaker unnecessary.

Configuration of the Cinema Link peripherals

The connection diagram in the inside cover shows you how to connect the Cinema Link peripherals with each other.

Notes:

- Besides the TV at least one peripheral should be provided with the Cinema Link functionality to benefit from this feature.
- To take advantage of the highest quality of multi channel Surround sound it is advisable that you have a Cinema Link audio receiver connected.
- The peripherals connected don't need to see the TV remote control in the Cinema Link system. The commands given to the TV are automatically passed to the other peripherals. This allows you to put the peripherals behind the doors of a cabinet or to place them in another room.
- To enjoy Digital Surround playback, the digital device (e.g. DVD) should be connected to the digital input of the audio receiver with a separate cinch audio cable ④. If you connect the digital audio output connector of your peripheral equipment to a digital input connector of your audio receiver ④, select the appropriate digital input (1 or 2) in your audio receiver.

Preparation and Operation

- ① Cinema Link is switched on as soon as the audio receiver and the TV are switched on. If necessary, Cinema Link may be switched off or on again only on the audio receiver. See the instructions for use of your audio receiver.

Important: When Cinema Link is switched on all audio commands control the audio receiver instead of the TV.

- ② The message **CINEMALINK ON** is displayed on the audio receiver and on the TV. Now the CinemaLink system is activated.

Note: it is recommended to disable CinemaLink when the receiver is used to record a CD e.g. or when using a headphone when others are watching TV.

Now you can adjust the initial TV settings for optimal surround sound and install the audio channels before starting up one of the CinemaLink devices. The system information about country choice, menu language and picture format you set up during the installation of the TV is transferred to the audio receiver automatically.

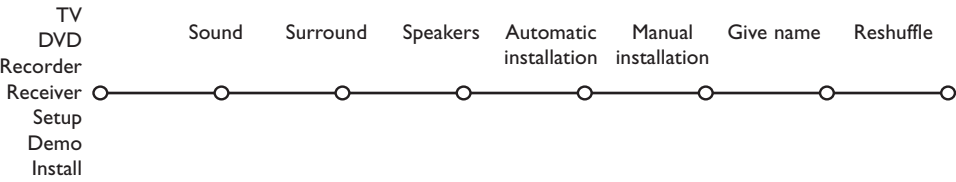
TV as centre speaker

See the Instructions for Use of the TV, Setup, Source menu, Centre input.

Use the test tone function in the Speakers menu to have a reference of the loudness of the separate speakers.

Note: If you want the loudspeakers of your TV to act as centre speaker, also connect a cinch to scart cable (not supplied) ② to EXT1 of your TV.

Receiver menu



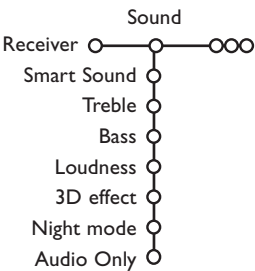
Note: When Cinema Link is enabled, certain items of the Sound menu (see TV menu) are steered by the audio receiver instead of by the TV.

- 1 Press the **MENU** key on the remote control.
- 2 Press the cursor down to select **Receiver**.
- 3 Press the cursor right to enter the Receiver menu items.
- 4 Press the cursor up/down to select the submenu items.

Note: the audio receiver submenu items may only be selected if provided by the audio receiver (dependent on the configuration setup and the sound signals transmitted).

Sound menu

Dependent on the audio receiver speakers configuration, you may not be able to select certain menu items.



Smart Sound, Treble, Bass

See the Instructions for Use for the TV.

Loudness

When **Loudness On** is selected and when listening at low volume, the low and high frequencies are amplified so that the natural balance is restored.

3D effect

3D effect enables you to experience the effect of Dolby Surround Pro Logic without the need of having rear speakers connected or activated.

Select the level of 3D effect with the cursor left/right.

Night mode *(only functional with Dolby Digital sound broadcasting input)*

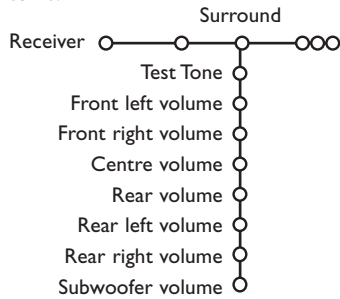
The loud parts of the sound are lowered and the soft passages are raised. You can enjoy surround sound without disturbing sleeping children or neighbours.

Audio only

This control enables you to blank the TV picture if the TV is used as centre speaker in the Cinema Link system and if the audio receiver is reproducing sound unrelated to a TV picture. Switch **Audio only On** to only hear the sound and to switch off the picture. The message **Audio only** appears on screen.

Surround menu

Dependent on the audio receiver speakers configuration, you may not be able to select certain menu items.



Adjustment of the volume level of the loudspeakers

Note: the test tone function is automatically cancelled by the audio receiver when leaving the Surround menu.

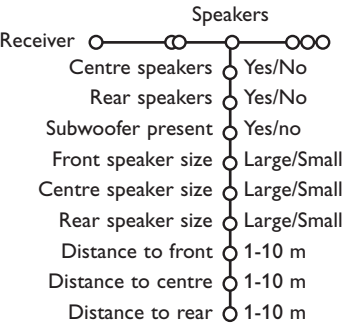
- 1 Select Test Tone On.**
A steady noise tone is switched sequentially through the available loudspeakers, except for the subwoofer, for 2 seconds each. This enables you to have a reference of the loudness of each loudspeaker and to adjust the level of each until they all sound equally loud.
The loudspeakers activated light up in the screen graphic.
- 2 Select the Surround menu items with the cursor up/down one after another and alter the selected adjustments with the cursor left/right.**
The best result is achieved when all speakers have equal volume in your usual listening position.
- 3 Select Test tone Off** when you have finished the adjustment of the speaker levels.

Speakers menu

Dependent on the audio receiver speakers configuration, you may not be able to select certain menu items.

Once the number and position of the loudspeakers has been fixed, selecting Centre speaker, Rear Speakers and Subwoofer Yes or No, you can adjust the initial receiver settings, size and distance, for optimal surround sound.

Note: after changing the configuration, the menu will disappear temporarily and re-appear again after the new settings will be updated.



Size of the speakers

Select **Small** if your speaker is able to reproduce low notes down to at least 80-100 Hz. Select **Large** if your speaker is able to reproduce low notes down to at least 50 Hz.

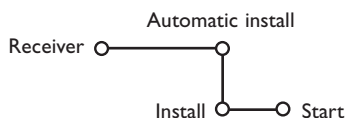
Note:

- As a rule of thumb, a large speaker has a cone diameter of at least 12 cms (5 inches). See the specification sheet of your loudspeakers.
- If Subwoofer present is set to No, Front speaker size can only be set to Large. If Front speaker size is set to Small, Centre speaker size can only be set to Small and consequently a subwoofer must be connected.

Distance to the speakers

Select the distance from your usual listening position to the available speakers each; front, centre and rear speakers.
This defines the delay time for the surround sound.

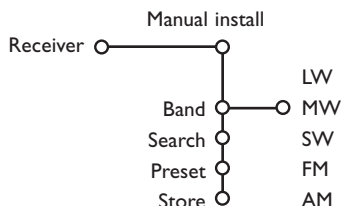
Automatic installation



In the Automatic installation menu select **Start** to activate the automatic searching of all radio stations which can be received.

The programme list is automatically filled with all the numbers and names of the radio stations transmitted.

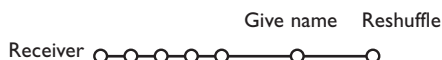
Manual installation



You can also search for a known radio station by keying in the frequency.

- ① First select **Band** to switch to the desired waveband: **LW, MW, SW, FM** or **AM**.
- ② Select **Search** and press the cursor right.
The frequency increases until a radio station is found.
If you know the 3-digit frequency, enter it directly with the digit keys 0 to 9.
Select **Preset** to enter the preset number using a three digit entry with the digit keys.
- ③ To store your radio station, select **Store** and press the **OK** key.
- ④ Repeat steps ① to ③ to store another radio station.

Give name - Reshuffle



To assign or change a name to a radio station or to change the order of the stored radio stations according to your preference, act in the same way as with giving a name or reshuffling the programme list of TV channels.
See the Instructions for Use of the TV.



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